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UTILITY 130014/11922 (21635-0117) Attorney Docket No. PATENT APPLICATION ACKERMAN et al. First Inventor ARTICLE PROTECTED BY A THERMAL TRANSMITTAL BARRIER COATING HAVING A GROUP 2 OR 3/GROUP 5 STABILIZATION-COMPOSITION ENRICHED CURFACE ER 636051368 US (Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No. Mail Stop Patent Application Δ APPLICATION ELEMENTS Commissioner for Patents ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria VA 22313-1450 Fee Transmittal Form (e.g., PTO/SB/17) 1. CD-ROM or CD-R in duplicate, large table or 7. [(Submit an original and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission 2. See 37 CFR 1.27. (if applicable, all necessary) 3. Specification [Total Pages 16] a. Computer Readable Form (CRF) (preferred arrangement set forth below) b. Specification Sequence Listing on: - Descriptive title of the invention - Cross Reference to Related Applications i. CD-ROM or CD-R (2 copies); or - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, ii. Paper or a computer program listing appendix - Background of the Invention c. Statements verifying identity of above copies - Brief Summary of the Invention - Brief Description of the Drawings (if filed) **ACCOMPANYING APPLICATION PARTS** - Detailed Description - Claim(s) 9. 🛛 Assignment Papers (cover sheet & document(s)) - Abstract of the Disclosure 4. 🛛 10. 37 CFR 3.73(b) Statement Power of Attorney Drawing(s) (35 U.S.C. 113) [Total Sheets 2] (when there is an assignee) 5. Oath or Declaration [Total Sheets 2] 11. \square English Translation Document (if applicable) 12. 🛛 Information Disclosure Copies of IDS Citations a. Newly executed (original or copy) Statement (IDS)/PTO-1449 b. Copy from a prior application (37 CFR 1.63(d)) 13. 🔲 **Preliminary Amendment** (for continuation/divisional with Box 18 completed) 14. 🛛 Return Receipt Postcard (MPEP 503) (Should be specifically itemized) i. DELETION OF INVENTOR(S) Certified Copy of Priority Document(s) 15. Signed statement attached deleting inventor(s) (if foreign priority is claimed) name in the prior application, see 37 CFR 16. \square Nonpublication Request under 35 U.S.C. 122 1.63(d)(2) and 1.33(b). (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Other: Certificate of Express Mailing, NASA Declaration 6. 🔯 Application Data Sheet. See 37 CFR 1.76 17. 🔯 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: ☐ Divisional of prior application No.: Continuation Continuation-in-part (CIP) Prior application information: Examiner Art Unit: For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference The incorporation <u>can only</u>be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS M Customer Number: 31450 Correspondence address below Name Address City State Zip Code Countr. Telephone Fax 42,946 Name (Print/Type) K. Scott O'Brian Registration No. (Attorney Agent)

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date

December 12, 2003

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

810

TOTAL AMOUNT OF PAYMENT

Application Number			
Filing Date	December 12, 2003		
First Named Inventor	ACKERMAN et al.		
Examiner Name	n/a		
Group / Art Unit	n/a		
Attorney Docket No.	130014/11922 (21635-0117)		

METHOD OF PAYMENT (check all that apply)					FEE CALCULATION (continued)							
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☐ Check ☐ Credit card ☐ Money ☐ Other ☐ None Order ☐ Deposit Account:				Large Entity		Small Entity						
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Number							1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
Deposit							1053	130	1053	130	Non-English specification	
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to the above-	-identi			ount. LCULATION			1252	410	2252	205	Extension for reply within second month	
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Large Entity	9	mall Entity	-				1254	1,450	2254	725	Extension for reply within fourth month	
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1001 750	1 -	001 375	i L	Itility filing fee		770	1401	320	2401	160	Notice of Appeal	
1002 330	- 1	002 165		esign filing fee			1402	320	2402	160	Filing a brief in support of an appeal	
1003 520		003 260		Plant filing fee			1403	280	2403	140	Request for oral hearing	
1004 750) 20	004 375	, F	Reissue filing fe			1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 160	' 20	005 80	۲	Provisional filling	g tee		1452	110	2452	55	Petition to revive – unavoidable	
SUBTOTAL (1) (\$) 770				1453	1,300	2453	650	Petition to revive - unintentional				
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2. EXTRA C	LAIM	FEES					1502	470	2502	235	Design issue fee	
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Multiple Dependent Large Entity		Small E	ntity	×[= 0	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
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	8	2202	9	Claims in e	xcess of 2	0	1810	750	2810	375	For each additional invention to be	
1201 8	4	2201	42	Independer	nt claims ir	excess of 3	İ				examined (37 CFR § 1.129(b))	
1203 2	80	2203	140	Multiple de	endent cl	aim, if not paid	1801	750	2801	375	Request for Continued Examination (RCE)	
1204 8	4	2204	42	** Reissue i original pate		nt claims over	1802	900	1802	900	Request for expedited examination	
1205 1	8	2205	9	** Reissue over origina		excess of 20 and		,			of a design application	
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l							*Reduc	ed by Ba	asic Filing	Fee Pa	aid SUBTOTAL (3) (\$) 40	
**or number	previ	ously paid,	if gre	ater; For Reis	sues, see	above					(4) 10	

SUBMITTED BY Complete (if applicable)							
Name (Print/Type)	K. Scott O'Brian	Registration No. Attorney/Agent)	42,946	Telephone	717-237-5492		
Signature	Ko no	# Con		Date	December 12, 2003		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card Information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231. If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. 1.10

I hereby certify that the following documents are being deposited with the United States Postal Service Express Mail Post Office to Addressee service under 37 C.F.R. 1.10 on the date indicated below, Express Mail Label Number ER 636051368 US, dated December 12, 2003 and addressed to:

Mail Stop PATENT APPLICATION Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

- 1. Return Acknowledgment Postcard
- 2. Utility Patent Application Cover Sheet
- 3. Fee Transmittal Form
- 4. Patent Application (16 Pages)
- 5. Drawings (2 sheets)
- 6. Declaration (1 copy of executed original, 2 pages)
- 7. Application Data Sheet
- 8. NASA Declaration (1 copy of executed original, 2 pages)
- 9. Power of Attorney (1 copy of executed original, 5 pages)
- 10. Assignment Recordation Form
- 11. Assignment (1 copy of executed original, 4 pages)
- 12. Information Disclosure Statement
- 13. PTO/SB/08

By: (Type signature) Lindsay Vican

Written Signature: Judgey Vulley Vull